Progress in Lipid Research

Volume 38, 1999

List of Contents and Author Index

PERGAMON

Progress in Lipid Research

Executive Editors

Howard Sprecher, *Department of Medical Biochemistry, Ohio State University, 337 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210, U.S.A.*

John L. Harwood, *School of Molecular & Medical Biosciences, University of Wales, College of Cardiff, P.O. Box 911, Cardiff CF1 3US, U.K.*

Yechezkel Barenholz, *Hebrew University–Hadassah Medical School, P.O.B. 12272, Jerusalem 91120, Israel*

Editorial Advisory Board

T. J. Bach, *Institut de Botanique U.L.P., 28 rue Goethe, F-67083, Strasbourg, Cedex, France*
R. J. Deckelbaum, *Columbia University, New York, NY 10032, U.S.A.*
H. Goldfine, *University of Pennsylvania, Philadelphia, PA 19104/6076, U.S.A.*
M. I. Gurr, *Vale View Cottage, Maypole, St Mary's, Isles of Scilly, U.K.*
S. Jackowski, *St Jude's Childrens Res. Hospital, Lauderdale, Memphis 38105-2729, U.S.A.*
B. de Kruijff, *University of Utrecht, 3508 TB Utrecht, The Netherlands*
P. Quinn, *King's College London, Campden Hill, London W8 7AH, U.K.*
H. H. Rees, *University of Liverpool, Liverpool L69 3BX, U.K.*
A. Spector, *University of Iowa, Iowa City, IA 52242/0001, U.S.A.*
K. Waku, *Teikyo University, Sagamiko, Kanagawa 199-01, Japan*

Founding Editor

Ralph T. Holman, *Hormel Institute, University of Minnesota, 801 16th Avenue, N.E., Austin, MN 55912, U.S.A.*

Author Service Department

For queries relating to the general submission of articles (including electronic text and artwork) and the status of accepted manuscripts please contact the Author Service Department [Tel: +44 (0) 1865 843900. Fax: +44 (0) 1865 843905. E-mail: authors@elsevier.co.uk].

Publication information: Progress in Lipid Research (ISSN 0163-7827). For 1999, volume 38 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (http://www.elsevier.nl/locate/plipres). Further information is available on this journal and other Elsevier Science products through Elsevier's website: (http://www.elsevier.nl). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

Published 6 issues per year in January, March, May, July, September and November.

© 1999 Elsevier Science Ltd. All rights reserved.

Periodicals postage is paid at Rahway, NJ. Progress in Lipid Research (ISSN 0163-7827) is published 6 issues per year in January, March, May, July, September and November by Elsevier Science Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK. The US subscription price is $908 per year.
POSTMASTER: Send address corrections to: Progress in Lipid Research, Elsevier Science, Customer Support Department, PO Box 945, New York, NY 10159-0945.
Distributed in the USA by Mercury Airfreight International, 365 Blair Road, Avenel, NJ 07001.

CONTENTS

NUMBER 1

Structure and Functional Properties of Diacylglycerols in Membranes
FÉLIX M. GOÑI and ALICIA ALONSO 1

Heterogeneous N-Terminal Acylation of Retinal Proteins
J. C. DEMAR JR., D. R. RUNDLE, T. G. WENSEL and R. E. ANDERSON 49

Molecular Interactions and Kinetic Properties of Fats
KIYOTAKA SATO, SATORU UENO and JUNKO YANO 91

NUMBER 2

Perception of Dietary Fat: Ingestive and Metabolic Implications
CORINNA M. LERMER and RICHARD D. MATTES 117

Molecular Inroads into the Regulation and Metabolism of Fatty Acids, Lessons from Bacteria
CONCETTA C. DIRUSSO, PAUL N. BLACK and JAMES D. WEIMAR 129

NUMBER 3

Carnitine Acyltransferases: Functional Significance of Subcellular Distribution and Membrane Topology
VICTOR A. ZAMMIT 199

Physiological Specialisation of Adipose Tissue
CAROLINE M. POND 225

Mechanisms of Action of Phospholipid Analogs as Anticancer Compounds
THOMAS WIEDER, WERNER REUTTER, CONSTANTIN E. ORFANOS and CHRISTOPH C. GEILEN 249

Specific Versus Non-Specific Effects of Dietary Fat on Carcinogenesis
NAJLA GUTHRIE and KENNETH K. CARROLL 261

NUMBER 4

The Generation of Lipid Signaling Molecules in the Nucleus
ALBERTO M. MARTELLI, SILVANO CAPITANI and LUCA M. NERI 273

Vitamin E and its Function in Membranes
XIAOYUAN WANG and PETER J. QUINN 309

Integration of Phospholipid and Sterol Metabolism in Mammalian Cells
NEALE D. RIDGWAY, DAVID M. BYERS, HAROLD W. COOK and MARGO K. STOREY 337

NUMBERS 5/6

Phospholipid Biosynthesis in the Yeast *Saccharomyces cerevisiae* and Interrelationship with other Metabolic Processes
GEORGE M. CARMAN and SUSAN A. HENRY 361

The Study of Storage Lipid Biosynthesis Using Microspore-Derived Cultures of Oilseed Rape
R. J. WESELAKE and D. C. TAYLOR 401

Acyltransferases of De Novo Glycerophospholipid Biosynthesis
LORI DIRCKS and HEI SOOK SUL 461

Index for Volume 38, 1999 I